

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

Dean M. Homan, et al

Serial No.: 10/812,369

Filed: 03/29/2004

Title: Subsurface Electromagnetic
Measurements Using
Cross-Magnetic Dipoles

Group Art No.: 2862

Examiner: Ledynh, Bot L.

Docket No: 24.0852

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RESPONSE TO OFFICE COMMUNICATION MAILED AUGUST 16, 2006

Dear Sir:

In response to the office communication mailed on August 16, 2006, Applicant submits the following requests and remarks.

REMARKS

Applicant respectfully traverses the restriction requirements imposed by the Examiner. Applicant contends that while there are multiple embodiments described in the specification, there is but one invention.

The Examiner concludes the process can be practiced by various materially different apparatus based on the various embodiments described in Applicant's specification. Applicant respectfully contends those embodiments are not materially different in that they represent various antenna configurations used to achieve various objectives of the invention. Each of those various embodiments adds specific limitations to the invention of claim 1. The Examiner's characterization of the embodiments shown in Figures 3A, 3B, and 3C as Species 1, 2, and 3, respectively, is improper because each is merely an illustration of a particular transmitter-receiver combination for the transmitter-receiver pair shown in Figure 2. Figures 3A, 3B, and 3C illustrate the use of parallel and tilted (i.e., non-parallel) transmitter and receiver antennas. The various embodiments characterized as sub-species show how to make and configure various transmitter-receiver pairs to achieve the objectives of the invention.

Applicant respectfully requests reconsideration and withdrawal of the imposed restriction requirements in light of Applicant's arguments. Should the Examiner find Applicant's arguments unpersuasive, Applicant elects Group I, claims 1-18, with traverse. Further, Applicant hereby elects, if the restriction requirements are not withdrawn, the sub-species of Figure 7. Claims 1-14, 17, and 18 read thereon.

The Commissioner is authorized to pay any additional fees or credit any overpayment to Deposit Account No. 190610.

Respectfully submitted,

August 23, 2006
Date

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